

1 GATTTCAACT TCTCCAACT TTGGATAAGG AAATAACAGC ATGAAAATC TCATTTGCTGA GTTTGTATT AAGGTGCC AAAAGAGA AGAGTGAAT
 CTTAAGTGA AGAGGTATGA AACCTATTC TTATATGCTG TACTTTAG AGTACGACT CAACATATA TTGCAACGG TTTTCTCT TCTCACCTTA
 101 GAACTGTGTG CGCAAGTAAAG AGCTTTGAG ATTATCGTCA CTGCAATGCT TCGCCAATATG GCGCAAAATG ACCAACGG GTGATTGAT CAGGTAGAGG
 CTGACACAC CGGTCCATCT TCGAAACCTC TAATAGCAGT GACGTGACGA AGCGTTAACAC CGCGTTTAC CGCCATTCAC TGTTGTCGC CAACTAACTA GTCCATCTC
 201 GGCGGTGTA CGAGGTAAG CCCGATGCCA GCATTTCCCA CGAGGATGAG GAGCTGTGC GCGATTAACGT AAAGAGGTT TTGAGGATC CNGTCACTA
 CCCGGACAT GCTCCATTTC GGGCTACGGT CGTAGGAGT GCTGCTATGC CGCTAATGCA TTTCCTCAAT AACTCTGTAG GACCGAGCT
 301 AAAGTAAAT CTTTCAACA GCTGTCATAA AGTGTGACGG GCGGAGACTT ATAGTGCTT TGTTTTATT TTGTTAGTA TTGTTAACTA GTCAGCAAGT
 TTTTCAATA GAAAATGTT CGACAGTATT TCAACAGTGC CGCGCTCTAA TATCAGGAA AACAAATAA AAATTACAT AAACATTGAT CATCGGTTCA

1
 401 Trp SD xbaI STII SD ATG AAA AAG AAT ATC GCA TTT CTT GCA TCT ATG TTC GTT TTT TCT ATG TAC TTT TTC TTA TAG CGT AAA GAA GAA CGT AGA TAC AAG CAA AAA AGA
 AGTGCATTT AGGGTATCTA GAGGTGAGG TGATTT TAC TTT CGT Met Lys Asn Ile Ala Phe Leu Ala Ser Met Phe Val Phe Ser
 1
 486 ATT GCT ACA AAT GCC TAT GCA (SEQ ID NO: 13)
 TAA CGA TGT TTA CGG ATA CGT
 17 Ile Ala Thr Asn Ala Tyr Ala (SEQ ID NO: 14)

FIG. 1

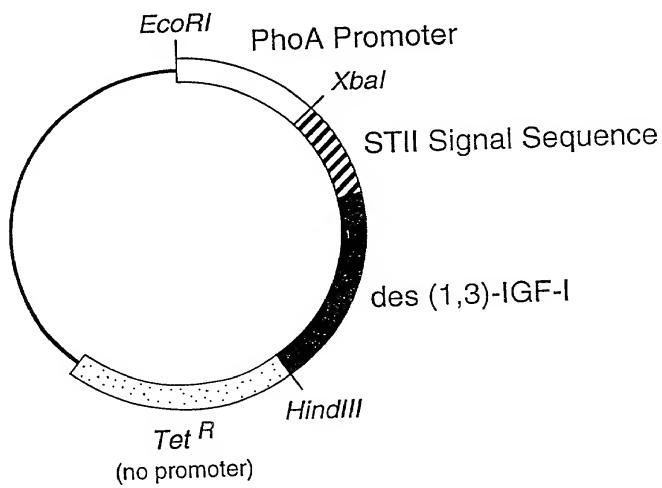


FIG. 2

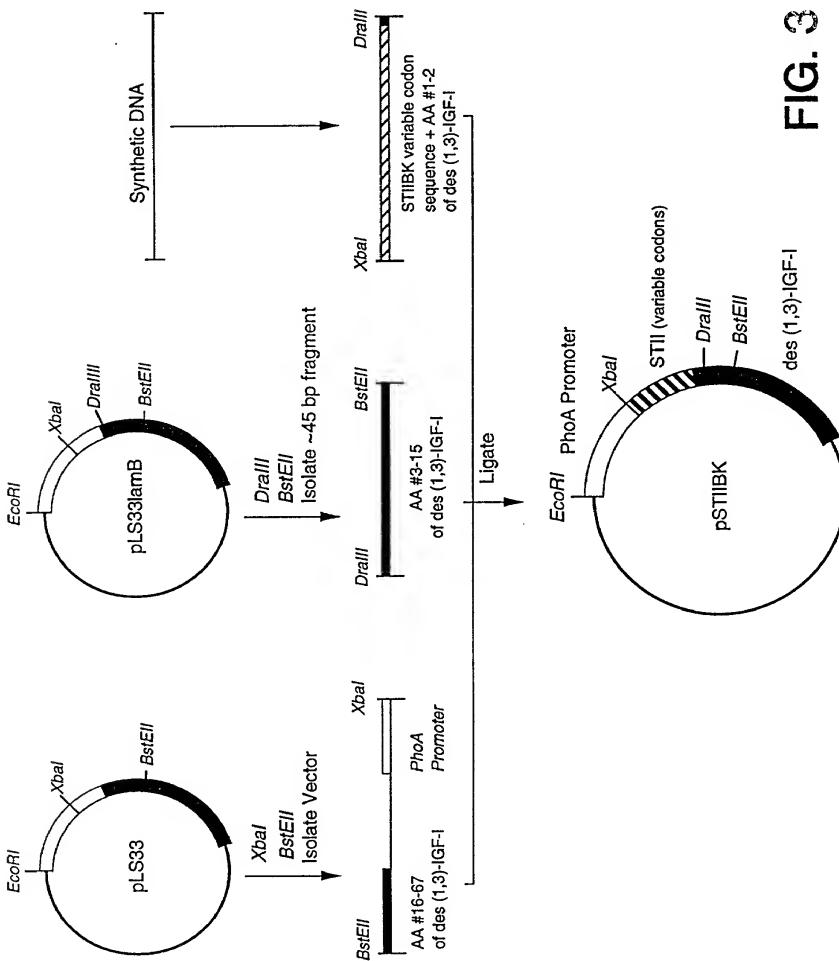
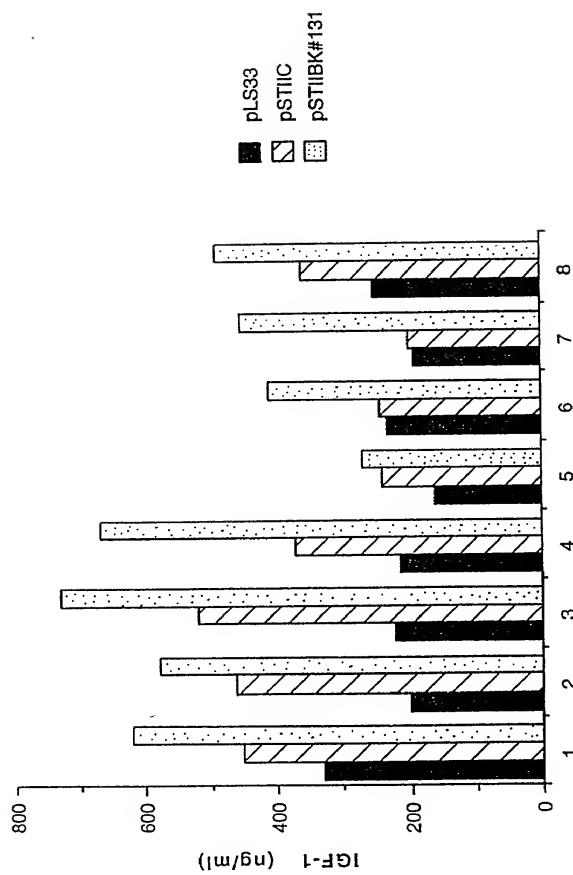


FIG. 3



Experiment

FIG. 4

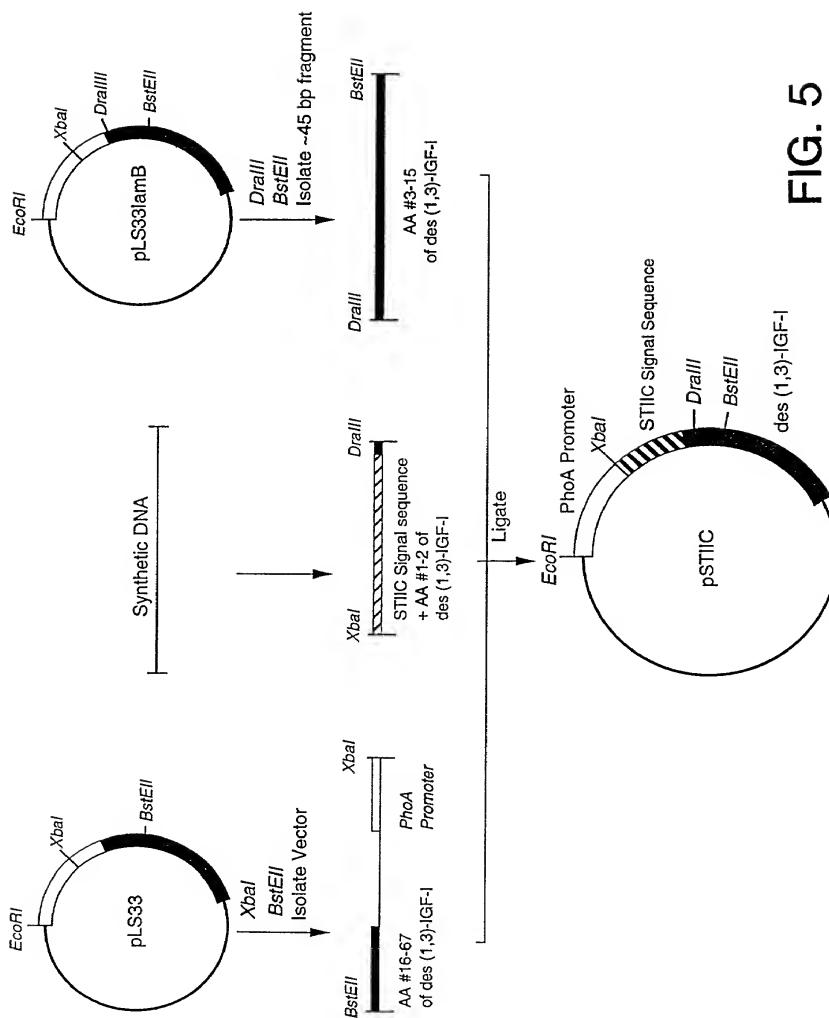
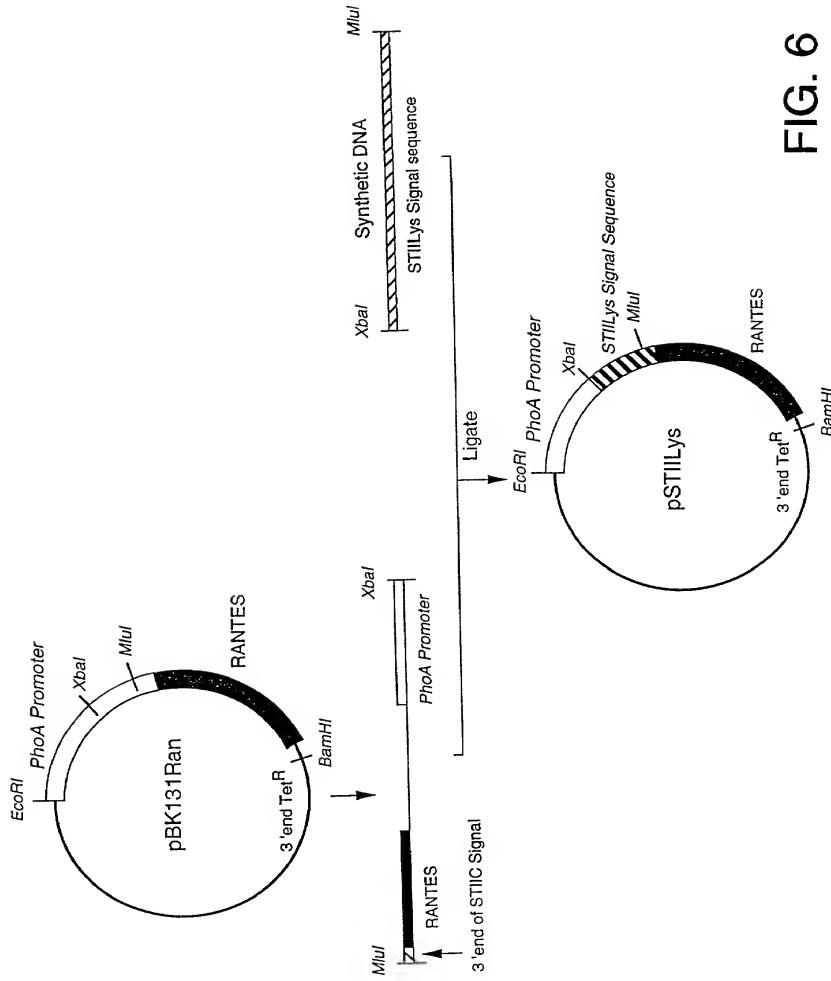
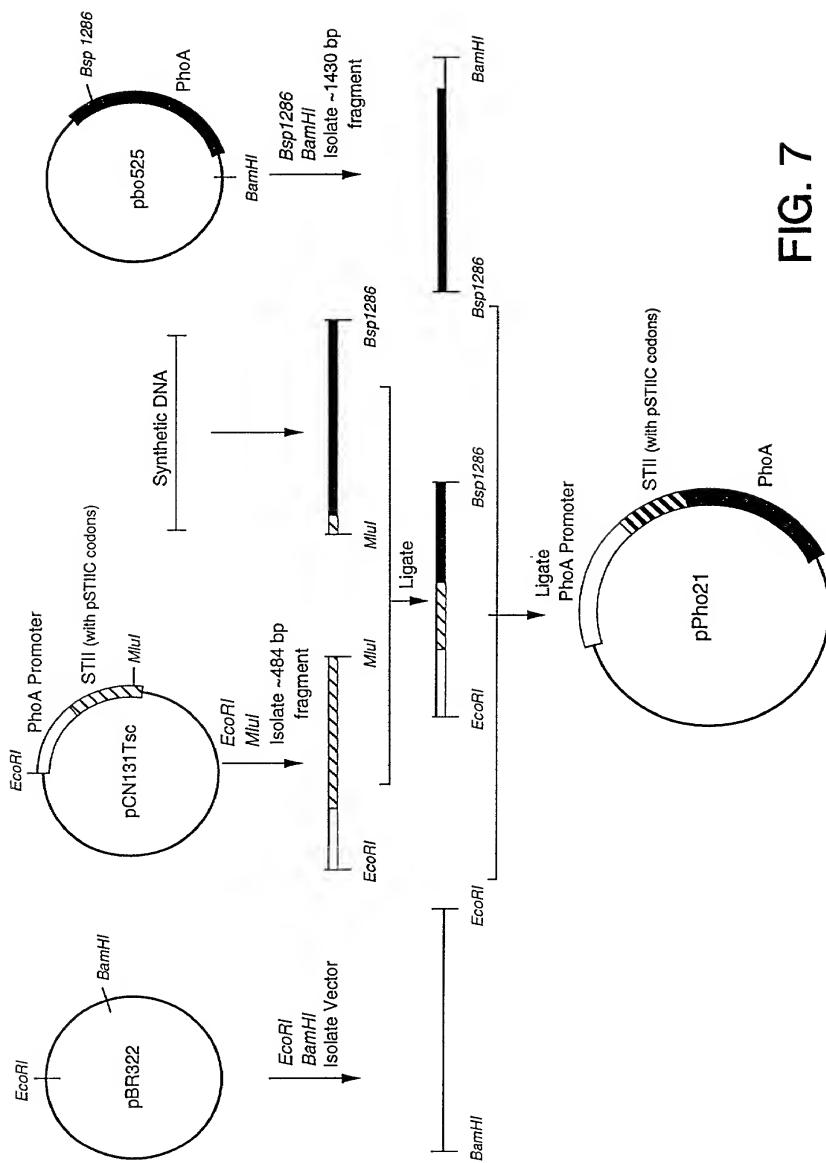
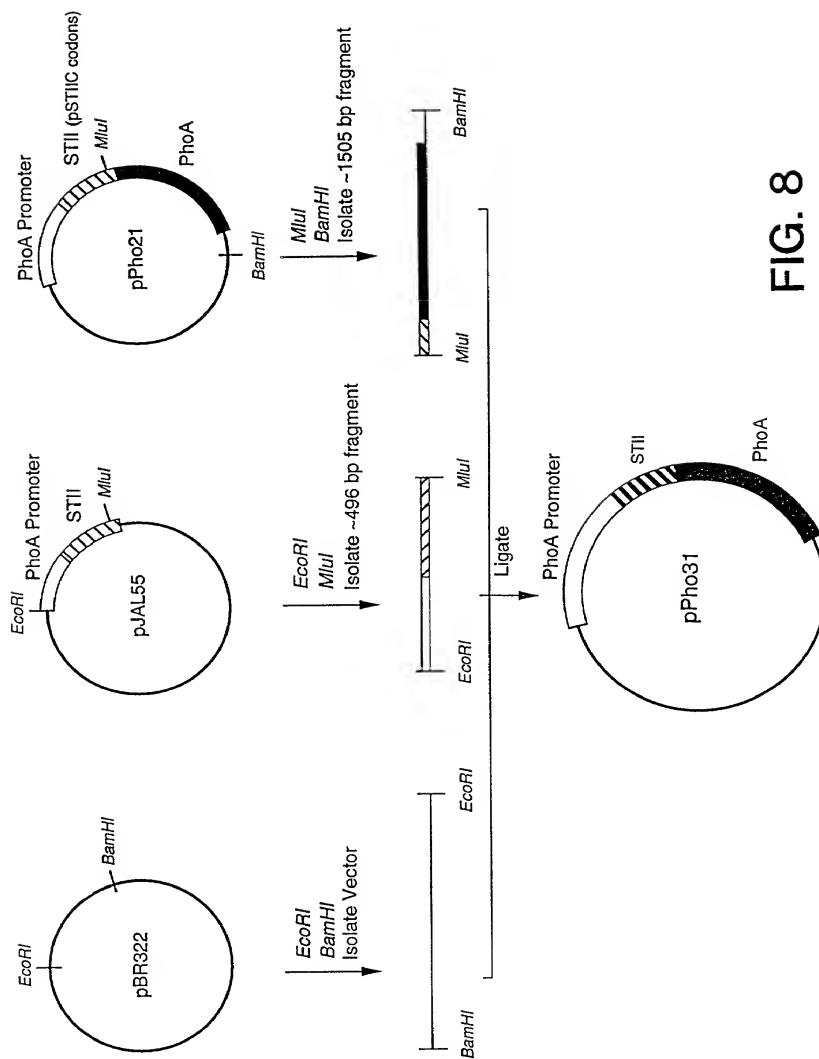


FIG. 5







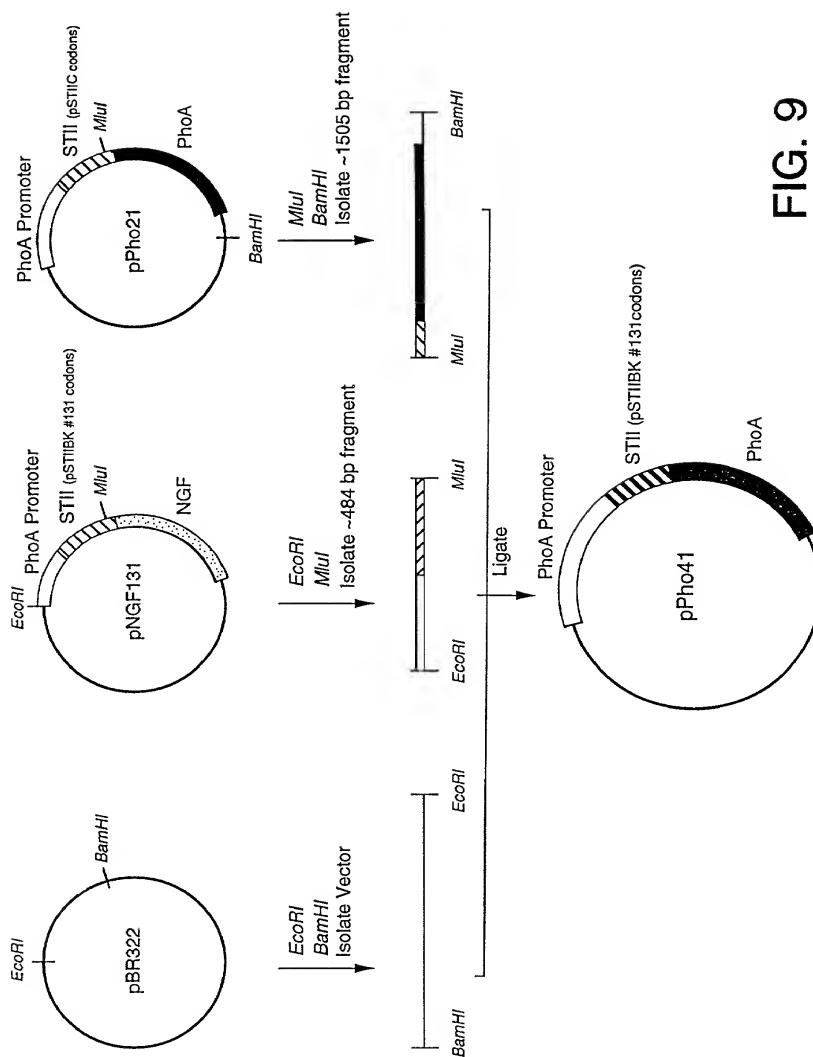


FIG. 9

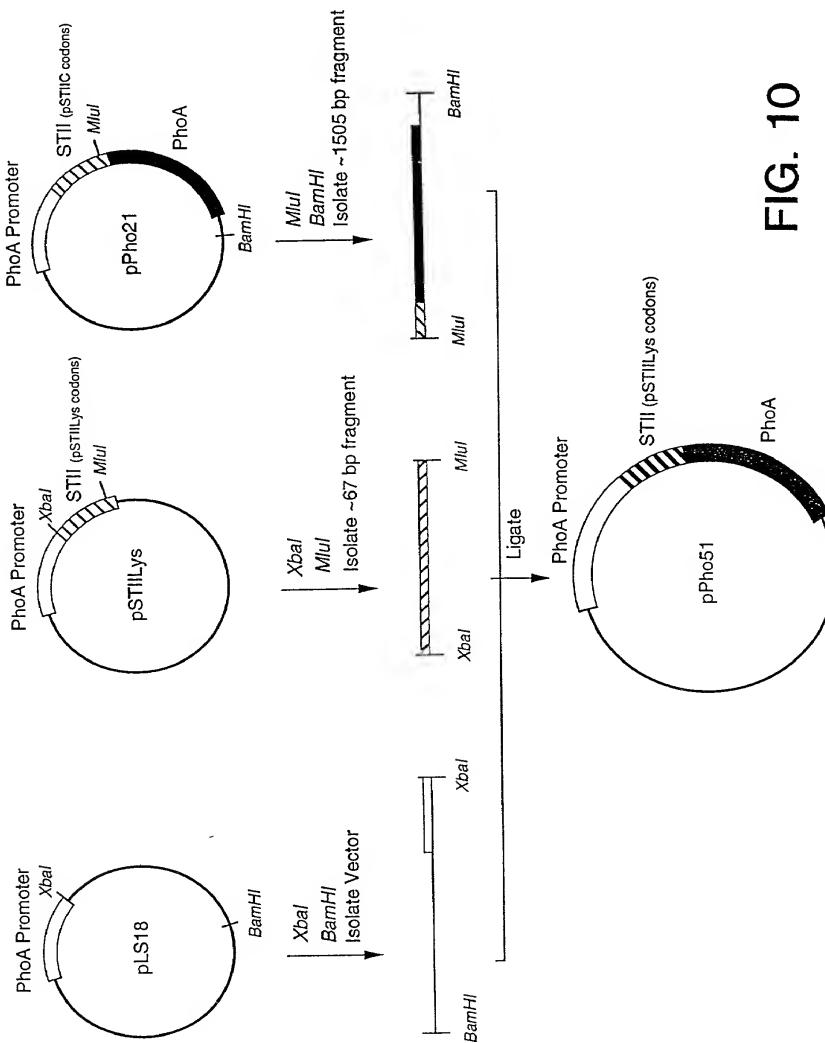


FIG. 10

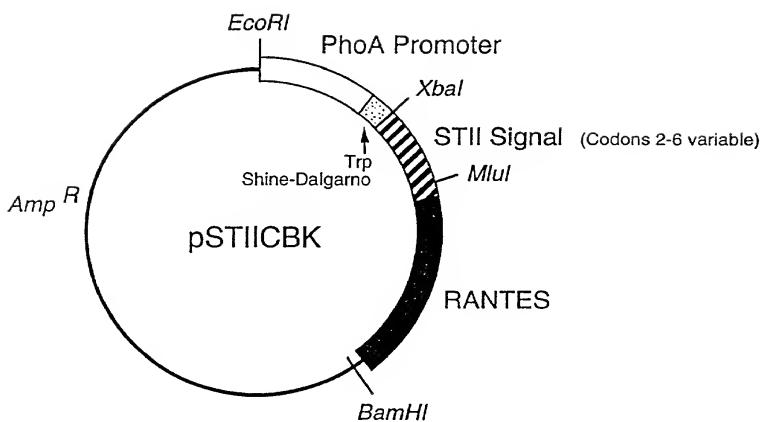


FIG. 11

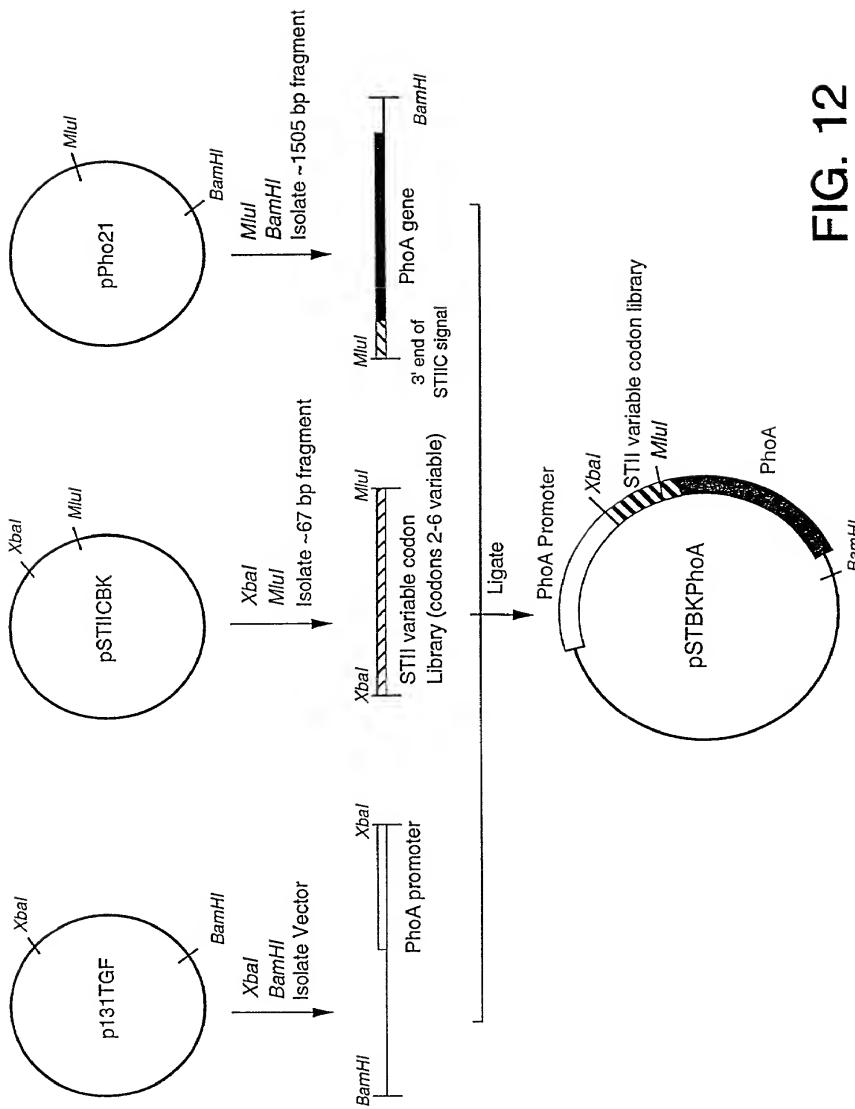


FIG. 12

1
0.8
0.6
0.4
0.2
0

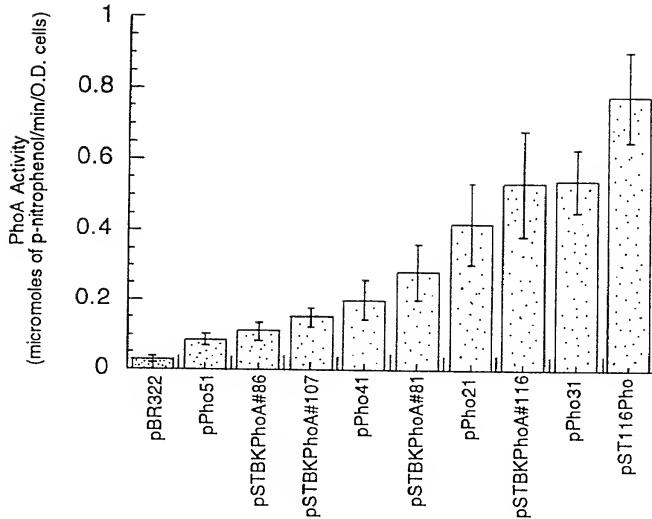


FIG. 13

pPho31 (Wild type STII + Mu1 site)
 TCTAGAGTTAGGTGATT
 pPho21 (STIIC)
 TCTAGAATT ATG AAA AAG AAT ATC GCA TTT CTT GCA TCT ATG TTC GTT
 pPho41 (STIIBK#131)
 TCTAGAATT ATG AAG AAG AAT ATT GCG TTC CTA CTT GCC TCT ATG TTT GTC
 pPho51 (STIILys- unless otherwise noted this sequence is the TR^1 used in the examples)
 TCTAGAATT ATG AAG AAT ATC GCA TTT CTT GCA TCT ATG TTC GTT
 pSTBKPhoA#116 TCTAGAATT ATG AAA AAA AAC ATC GCA TTT CTT GCA TCT ATG TTC GTT
 pSTBKPhoA#81 TCTAGAATT ATG AAA AAA AAC ATT GCC TTT CTT GCA TCT ATG TTC GTT
 pSTBKPhoA#107 TCTAGAATT ATG AAG AAA AAC ATC GCT TTT CTT GCA TCT ATG TTC GTT
 pSTBKPhoA#86 TCTAGAATT ATG AAA AAG AAC ATA GCG TTT CTT GCA TCT ATG TTC GTT
 pST116Pho
 TCTAGAGTTAGGTGATT
116

FIG. 14A

		TIR RELATIVE STRENGTH
TTT	TCT ATT GCT ACA AAY GCS TAT GCM*	(SEQ ID NO:15) 9
TTT	TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:16) 7
TTT	TCT ATA GCT ACA AAC GCG TAT GCM	(SEQ ID NO:17) 3
TTT	TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:18) 1
TTT	TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:19) 9
TTT	TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:20) 4
TTT	TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:21) 2
TTT	TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:22) 1
TTT	TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:23) 13

* The codons for the last four amino acids of this sequence may differ in some of the examples of protein secretion. For example, in the IGF-1, VEGF165 and RANTES secretion plasmids, the sequence is AAT GCG TAT GCA; the last codon for the last amino acid in every sequence listed may vary in the examples of protein secretion - GCG and GCA were both used.

FIG. 14B

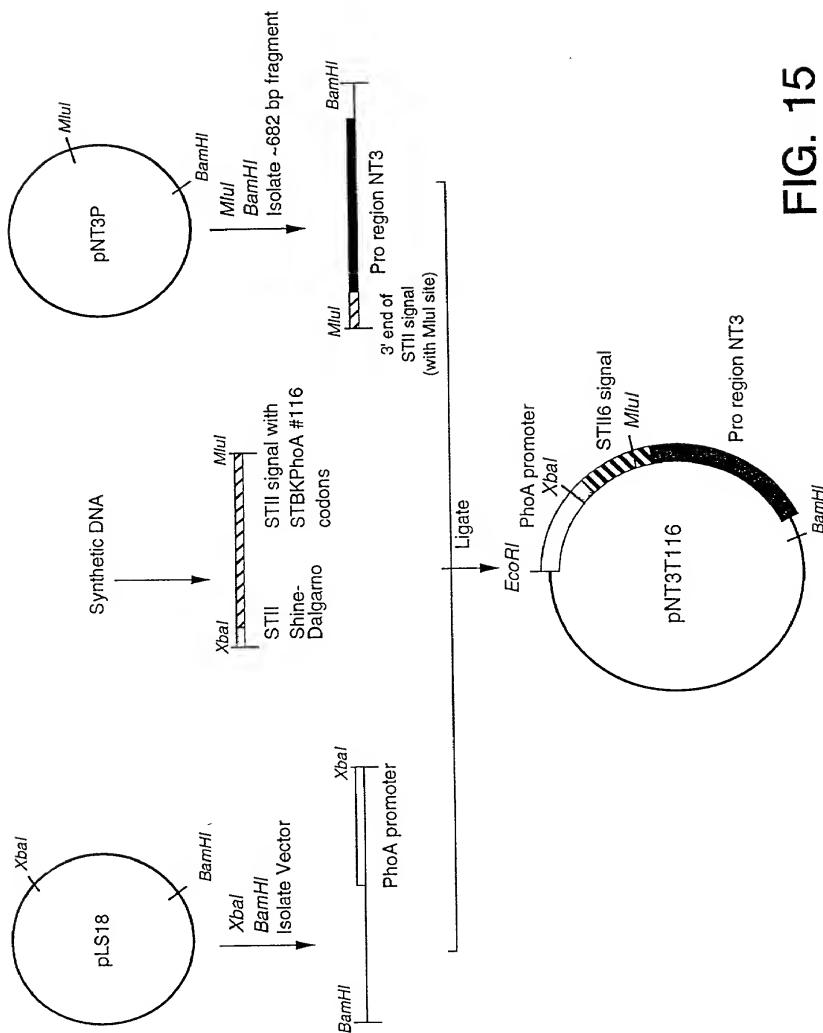
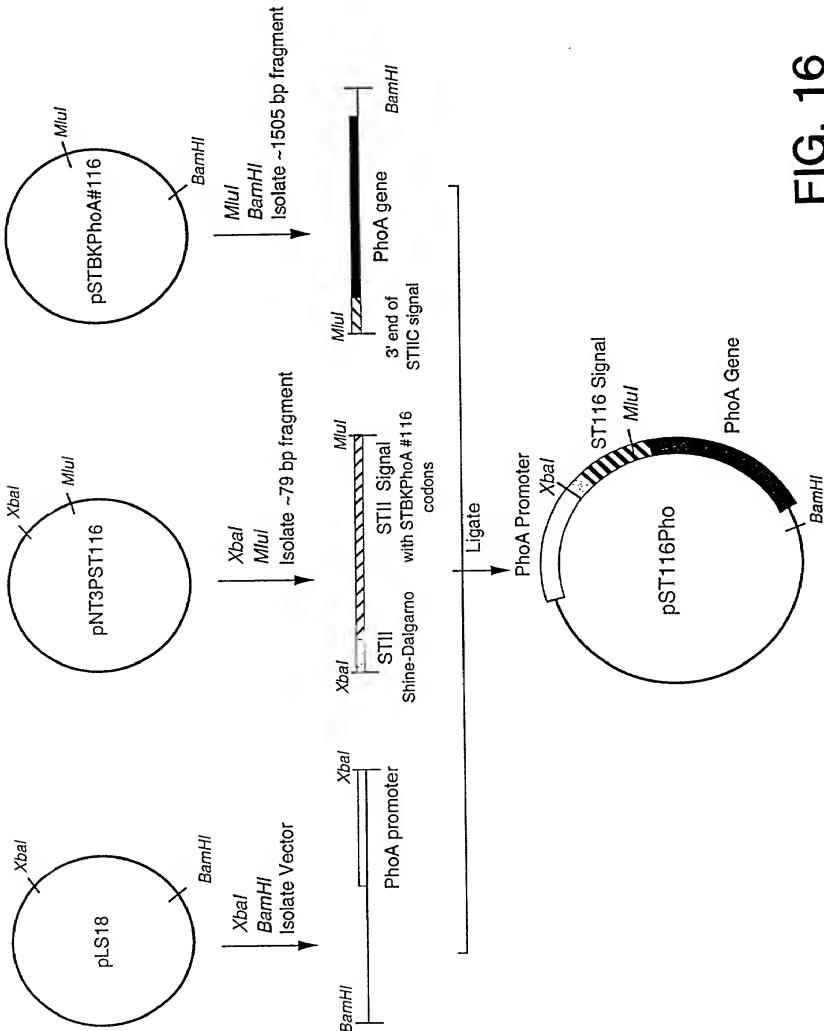
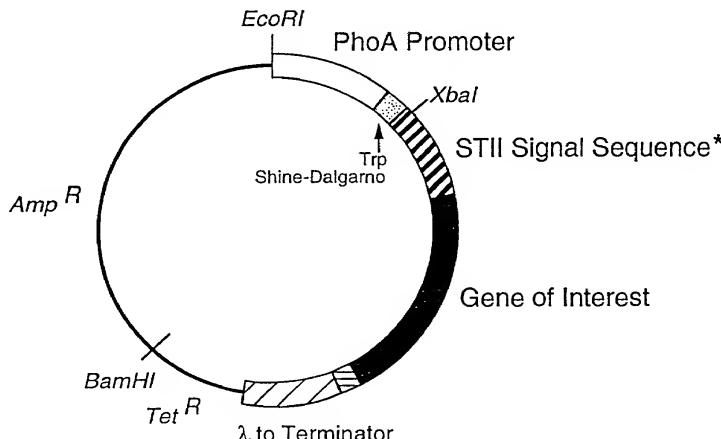


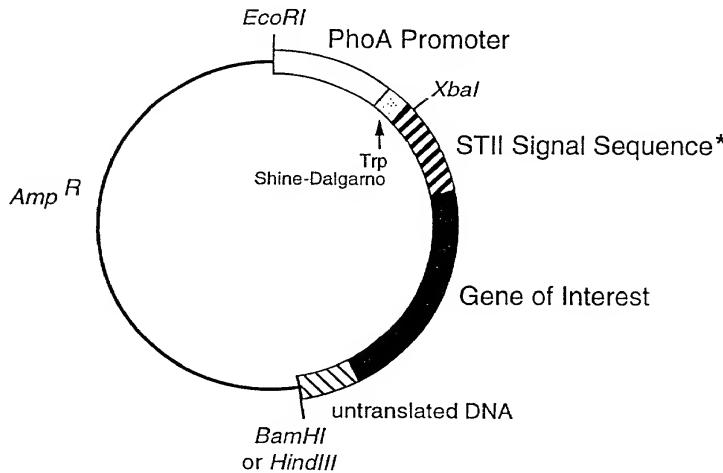
FIG. 15





* One of the nucleotide sequences listed in Figure 14
(STII Shine-Dalgarno may also be included).

FIG. 17



* One of the nucleotide sequences listed in Figure 14
(STII Shine-Dalgarno may also be included).

FIG. 18